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HEADQUARTERS
대한민국,서울

ROK-US COMBINED FORCES COMMAND
한미 연합군 사령부

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MILITARY OPERATIONS
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NBC WARNING AND REPORTING SYSTEM
화생방 경보 및 보고체계

HEADQUARTERS
ROK-US COMBINED FORCES COMMAND
APO AP 96205-0028

CFC PAM
NO. 525-10

Military Operations
NUCLEAR, BIOLOGICAL AND CHEMICAL (NBC)
WARNING AND REPORTING SYSTEM (NBCWRS)

SUPPLEMENTATION. Issue of further supplements to this pamphlet by subordinate commands is authorized with approval of this headquarters. Submit copies of supplements to HQ CFC, ATTN: CFCD-PL-C, Unit #15255, APO AP 96205-0028 for approval.

CONTENTS

***This Pamphlet supersedes CFC Pam 525-10 dtd 5 Aug 87**

CHAPTER 1
GENERAL

1-1. PURPOSE. This pamphlet outlines existing policies and procedures for the submission and transmission of data on enemy NBC attacks and the management of data in the NBC Warning and Reporting System (NBCWRS) within CFC as prescribed in the Combined Battle Staff Standing Operating Procedures (CBSSOP).

1-2. APPLICABILITY. This pamphlet applies to all units, organizations, and agencies assigned to, attached to, or under operational control (OPCON) of HQ, Combined Forces Command (CFC).

1-3. REFERENCES. Required and related publications and reference forms are listed in appendix A.

1-4. EXPLANATION OF ABBREVIATIONS AND TERMS. Abbreviations and special terms used in this pamphlet are explained in the glossary.

CHAPTER 2
NBC WARNING AND REPORTING SYSTEM

Section I
CONCEPT OF OPERATION

2-1 OVERVIEW. The NBC Warning and Reporting System (NBCWRS) is a multi-leveled system.

a. The lowest level of the system is the individual soldier/sailor/airman/marine and the upper most level is the President of the Republic of Korea and President of the United States.

b. Each level of command and control will establish an organization and procedures to ensure timely reporting of suspected or actual enemy use of nuclear weapons, lethal or incapacitating chemical agents, biological agents, toxins, riot control agents (RCA) or herbicides. The reports will be passed up, down, and laterally through the system using the standard formats outlined in Chapter 3 of this Pam.

c. The system also contains standard messages (i.e. Effective Downwind Message (EDM) and Chemical Downwind Message (CDM)) for passing evaluated weather data for use in plotting expected areas of contamination following an NBC attack.

2-2 SYSTEM ACTIVATION. The Combined Forces Command (CFC) NBCWRS will be activated when directed by the CFC commander. However, any commander may activate his portion of the CFC NBCWRS if enemy usage of nuclear weapons, lethal or incapacitating chemical agents, biological agents, toxins, RCAs or herbicides appears probable within his area of responsibility.

Section II
ORGANIZATIONAL REQUIREMENTS FOR THE NBCWRS.

2-3 CFC NBC CENTER (NBCC). The CFC Chemical Section staff and 38th Chem Detachment (U.S. Army) will activate the CFC NBCC at CP TANGO. This NBCC will also serve as the Ground Component Command (GCC) and United States Forces KOREA (USFK) NBCC.

2-4 COMPONENT NBCC. GCC, Air Component Command (ACC), Naval Component Command (NCC), Combined Marine Forces Command (CMFC) and Combined Unconventional Warfare Task Force (CUWTF) will man and operate an NBCC or equivalent organization IAW component/service polices and directives.

2-5 FIELD ARMIES AND SEPARATE CORPS NBCC. FROKA, SROKA, TROKA and Separate Corps will man and operate an NBCC or equivalent organization IAW component/service polices and directives.

2-6 SUBORDINATE COMMANDS NBCC. Each component subordinate command (down to the minimum of division or equivalent sized unit) will man and operate an NBCC or equivalent organization IAW component policies and directives.

2-7 AREA SUPPORT GROUPS (ASG) NBCC. Each US Army ASG will activate an NBC Center made up initially of organic chemical personnel. As the theater matures these NBCCs will be augmented with JA and JB teams as they become available in theater.

Section III
NBCC FUNCTIONS AND RESPONSIBILITIES.

2-8 FUNCTIONS. NBCCs must be able to:

a. Receive, evaluate, process, record and disseminate reports of actual or suspected enemy nuclear, biological, or lethal chemical attacks or use of RCAs or herbicides by the enemy.

b. Assign a strike serial number to each NBC event that occurs in the units area of control. Procedures for assigning strike serial numbers are outlined in Chapter 4.

c. Receive and disseminate CDM and EDM prepared by CFC NBCC.

d. Advise the commander on all aspects of NBC defense.

2-9 RESPONSIBILITIES.

a. **Service Components, Field Armies and Separate Corps will:**

(1) IAW component/service policy, activate an NBCC or equivalent organization and establish procedures to pass NBCWRS information, including communications between US, ROK, and allied units, with special attention to lateral exchange.

(2) Be prepared to perform NBC defense, smoke, and flame operations.

(3) Be prepared to perform RCA and herbicide operations if authorized by both ROK and US NCAs.

b. **All NBCCs will:**

(1) Receive and process NBC reports from subordinates and keep the CDR and staff informed.

(2) Monitor the status of NBC defense resources and recommend allocation of these resources.

(3) Prepare and disseminate a CDM for each of the eight forecast zones to subordinate command NBCCs every six hours.

(4) Prepare and disseminate an EDM for the peninsula to subordinate command NBCCs every 12 hours.

(5) Prepare and disseminate an NBC Summary Report every 12 hours listing activities which have occurred in the theater.

c. **Field Armies and separate Corps NBCC will:**

(1) When committed to combat, field armies and separate corps are responsible for receiving NBC reports from and passing NBCWRS information to all assigned units and other CFC and allied elements located in their zone of control from the FLOT to the forward edge of the COMMZ.

(2) When in reserve or committed to missions other than direct combat, field armies and separate corps are responsible for receiving NBC reports from assigned units and passing NBCWRS information to assigned units. They will also establish liaison with the element controlling the terrain they are located on for the exchange of NBCWRS information.

(3) Monitor the status of NBC defense resources and recommend prioritized movement of these resources within the command to the C-3.

CHAPTER 3
NBC REPORTS

Section I
OVERVIEW.

3-1 GENERAL.

a. This Chapter outlines the use, preparation, and submission of the standard NBC reports.

b. Appendix B listed the meaning of each line item.

c. Formats and standard line entries are found in Appendix C through P.

Section II
NBC NUCLEAR REPORTS.

3-2 NBC 1 Nuclear - Observer's Report.

a. Use: For observer to submit enemy nuclear attack data. The initial report is submitted at a minimum with lines B, D, H, and either C or F. Follow up reports will be submitted as additional data becomes available.

b. Prepared by: Observing unit.

c. Passed to:

(1) The observing unit will pass the report to higher, lower, and adjacent units.

(2) The initial NBC 1 report of nuclear weapons use will be passed up the chain of NBCCs as quickly as possible.

(3) For subsequent Nuclear attacks, the NBC 1 reports will be passed up to the first NBCC in the chain which will evaluate the data and prepare and submit an NBC 2 Nuclear report.

(4) Each level of the NBCWRS will also pass it to higher, lower, and adjacent units.

d. Precedence:

(1) FLASH, for the initial use report.

(2) IMMEDIATE, for all subsequent reports.

e. **Format:** See Appendix C.

3-3. NBC 2 Nuclear - Evaluated Data.

a. **Use:** To pass evaluated enemy nuclear attack data.

b. **Prepared by:** The lowest level of the NBCWRS having sufficient data. Usually no lower than division or Area Support Group level.

c. **Passed to:** All higher, lower, and adjacent units.

d. **Precedence:** IMMEDIATE.

e. **Format:** See Appendix D.

3-4 NBC 3 Nuclear - Immediate Warning of Expected Contamination.

a. **Use:** To pass immediate warning of expected areas of nuclear contamination.

b. **Prepared by:** The lowest level of the NBCWRS having sufficient data to prepare the report. The lowest level that this data will be available is Division or ASG NBCC level.

c. **Passed to:** All higher, lower, and adjacent units.

d. **Precedence:** IMMEDIATE.

e. **Format:** See Appendix E.

3-5. NBC 4 Nuclear - Reconnaissance, Monitoring, and Survey Results.

a. **Use:** To pass nuclear contamination data obtained during NBC reconnaissance, monitoring, or survey operations.

b. **Prepared by:** The element conducting the NBC reconnaissance, monitoring, or survey operations.

c. **Passed to:** The NBC element controlling the NBC reconnaissance, monitoring, or survey operations.

d. **Precedence:** IMMEDIATE.

e. **Format:** See Appendix F.

3-6. NBC 5 Nuclear - Areas of Actual Contamination.

a. **Use:** To pass the locations of actual nuclear contamination areas.

b. **Prepared by:** The lowest level of the NBCWRS having sufficient data to prepare the report. The lowest level that this data will be available is Division or ASG NBCC level or service equivalent.

c. **Passed to:** Subordinate units, adjacent units, and higher headquarters.

d. **Precedence:** IMMEDIATE.

e. **Format:** See Appendix G. This report is best sent by overlay if time and tactical situation permit.

Section III
NBC CHEMICAL/BIOLOGICAL REPORTS.

3-7. NBC 1 Chemical or Biological - Observer's Report.

a. **Use:** For observer to submit actual or suspected enemy chemical or biological attack data or to report actual or suspected use of Riot Control Agents or herbicides by the enemy. An initial report is submitted with a minimum of lines B, D, H, and either C or F. Follow up reports will be submitted as additional data becomes available.

b. **Prepared by:** Observing unit.

c. **Passed to:**

(1) To higher, lower, and adjacent units.

(2) For initial use report of chemical, biological agents, RCAs, or herbicide operations, the NBC 1 Chemical or Biological will be passed up the chain of NBCCs as quickly as possible.

(3) Each level of the NBCWRS will also pass the report to lower and adjacent units.

(4) For subsequent chemical or biological attacks, the NBC 1 reports will be passed up to the first NBCC in the chain which will evaluate the data and prepare and submit an NBC 2 Chemical or Biological report.

d. **Precedence:** FLASH for the initial use report; IMMEDIATE for all subsequent reports.

e. **Format:** See Appendix H.

3-8. NBC 2 Chemical or Biological - Evaluated Data.

a. **Use:** To pass evaluated enemy chemical or biological attack data.

b. **Prepared by:** The lowest level of the NBCWRS having sufficient data, usually no lower than division or Area Support Group level.

c. **Passed to:** All higher, lower, and adjacent units.

d. **Precedence:** IMMEDIATE.

e. **Format:** See Appendix I.

3-9 NBC 3 Chemical - Immediate Warning of Expected Contamination.

a. **Use:** To pass immediate warning of expected areas of chemical contamination.

b. **Prepared by:** The lowest level of the NBCWRS having sufficient data to prepare the report. The lowest level this data will be available is Division or ASG NBCC level.

c. **Passed to:** Higher, lower, and adjacent units.

d. **Precedence:** IMMEDIATE.

e. **Format:** See Appendix J.

3-10. NBC 4 Chemical - Reconnaissance, Monitoring, and Survey Results.

a. **Use:** To pass chemical contamination data obtained during NBC reconnaissance, monitoring, or survey operations.

b. **Prepared by:** The element conducting the NBC reconnaissance, monitoring, or survey operations.

c. **Passed to:** The NBC element controlling the NBC reconnaissance, monitoring, or survey operations.

d. **Precedence:** IMMEDIATE.

e. **Format:** See Appendix K.

3-11. NBC 5 Chemical - Areas of Actual Contamination.

a. **Use:** To pass the location of actual chemical contamination areas.

b. **Prepared by:** The lowest level of the NBCWRS having sufficient data to prepare the report. The lowest level this data will be available is Division or ASG NBCC level.

c. **Passed to:** Subordinate units, adjacent units, and higher headquarters.

d. **Precedence:** IMMEDIATE.

e. **Format:** See Appendix L. This report is best sent by overlay if time and tactical situation permit.

3-12. NBC 6 Chemical or Biological - Detailed Information on Chemical or Biological Attack.

a. **Use:** To pass detailed data of a chemical or biological attack.

b. **Prepared by:** The lowest level of the NBCWRS having sufficient data to prepare the report.

c. **Passed to:** Higher headquarters only when requested.

d. **Precedence:** IMMEDIATE.

e. **Format:** See Appendix M. It is a narrative form giving as much detailed information as possible for each line item.

Section IV
WEATHER MESSAGES

3-13 EFFECTIVE DOWNWIND MESSAGE (EDM):

a. **Use:** To pass evaluated upper wind data to be used in preparing simplified fallout predictions when nuclear attacks occur.

b. **Prepared by:** The CFC NBCC will prepare and disseminate an EDM for the peninsula every 12 hours. Lower levels of the NBCWRS having access to

upper wind data may prepare and disseminate an EDM for their area.

c. **Passed to:** Subordinate and adjacent units.

d. **Precedence:** Routine.

e. **Format:** See Appendix N.

3-14. CHEMICAL DOWNWIND MESSAGE (CDM):

a. **Use:** To pass evaluated weather data to be used in preparing simplified hazard predictions when a chemical attack occurs.

b. **Prepared by:** The CFC NBCC will prepare and disseminate a CDM for each of the eight forecast zones on the peninsula (zones are listed in Appendix Q) every 6 hours. Lower levels of the NBCWRS having access to weather data may prepare and disseminate a CDM for their area. Due to the wide variation of weather and surface winds on the peninsula, weather data taken at or near the attack and reported in lines YANKEE and ZULU ALPHA of the NBC 1 or NBC 2 report is the best data to use to prepare simplified and detailed chemical predictions.

c. **Passed to:** Subordinate and adjacent units.

d. **Precedence:** Routine.

e. **Format:** See Appendix O.

Section V
SUMMARY REPORT.

3-15. NBC SUMMARY REPORT

a. **Use:** To provide the CDR, CFC, with an overview of NBC activities every 12 hours. Reports have a cut-off time of 2400I and 1200I.

b. **Prepared by:** Each component NBCC, ASG NBCC, and EUSA MSC.

c. **Passed to:** CFC/GCC NBCC. The reports submitted to the USFK NBCC are compiled and analyzed.

d. **Precedence:** IMMEDIATE.

e. **Format:** See Appendix P.

CHAPTER 4
NBC REPORTING CHANNELS

SECTION I
CFC REPORTING CHANNELS

4-1 CFC NBCC TO SUBORDINATE NBCC: (GCC, ACC, NCC, CMFC, CUWTF, CAF)

a. **REPORTS PASSED.** The following reports will be passed down to subordinate NBCC:

(1) CDMs (0001, 0600, 1200 and 1800 local)

(2) EDMs (0001 and 1200 local)

(3) NBC 1 (NUC, BIO and CHEM report the initial use of each type agent.)

(4) NBC 2 (NUC, BIO and CHEM, as received).

(5) NBC 3 (NUC and CHEM, as information is received and processed).

(6) NBC Status Report (CFC combined report).

b. **REPORT CHANNELS.** The following communication channels will be used to pass NBCWRS information:

(1) Primary: TACCIMS

(2) Secondary: Hangul Teletype

(3) Tertiary: Secure Voice

(4) Additional: Fax

Nonsecure voice

4-2 SUBORDINATE NBCC TO CFC NBCC: (GCC, ACC, NCC, CMFC, CUWTF, CAF)

a. **REPORTS PASSED.** The following reports will be passed up to CFC NBCC from subordinate NBCC:

(1) NBC 1 (NUC, BIO and CHEM report the initial use of each type agent.)

(2) NBC 2 (NUC, BIO and CHEM, as received).

(3) NBC 3 (NUC and CHEM, as information is received and processed).

(4) NBC Status Report (1200 and 2400 local).

b. **REPORT CHANNELS.** The following communication channels will be used to pass NBCWRS information:

(1) Primary: TACCIMS

(2) Secondary: Hangul Teletype

(3) Tertiary: Secure Voice

(4) Additional: Fax

Nonsecure voice

SECTION II
GCC REPORTING CHANNELS

4-3 GCC NBCC TO SUBORDINATE NBCC: (FROKA, SROKA, TROKA, SEPARATE CORPS).

a. **REPORTS PASSED.** The following reports will be passed down to subordinate NBCC:

(1) CDMs (NLT OOO1, 0600, 1200 and 1800 local)

(2) EDMs (NLT 0001 and 1200 local)

(3) NBC 1 (NUC, BIO and CHEM report the initial use of each type agent.)

(4) NBC 2 (NUC, BIO and CHEM, as received).

(5) NBC 3 (NUC and CHEM, as information is received and processed).

(6) NBC Status Report (CFC combined report).

b. **REPORT CHANNELS.** The following communication channels will be used to pass NBCWRS information:

(1) Primary: TACCIMS

(2) Secondary: Hangul Teletype

(3) Tertiary: Secure Voice

(4) Additional: Fax

Nonsecure voice

4-4 SUBORDINATE NBCC TO GCC NBCC: (FROKA, SROKA, TROKA, SEPARATE CORPS).

a. **REPORTS PASSED.** The following reports will be passed up to GCC NBCC from subordinate NBCC:

(1) NBC 1 (NUC, BIO and CHEM report the initial use of each type agent.)

(2) NBC 2 (NUC, BIO and CHEM, as received).

(3) NBC 3 (NUC and CHEM, as information is received and processed).

(4) NBC Status Report (1200 and 2400 local).

b. **REPORT CHANNELS.** The following communication channels will be used to pass NBCWRS information:

(1) Primary: TACCIMS

(2) Secondary: Hangul Teletype

(3) Tertiary: Secure Voice

(4) Additional: Fax

Nonsecure voice

SECTION III
USFK REPORTING CHANNELS

4-5 USFK NBCC TO SUBORDINATE NBCC: (EUSA, USAFK, USNFK)

a. **REPORTS PASSED.** The following reports will be passed down to USFK subordinate NBCC:

(1) CDMs (NLT 0001, 0600, 1200 and 1800 local)

(2) EDMs (NLT 0001 and 1200 local)

(3) NBC 1 (NUC, BIO and CHEM report the initial use of each type agent.)

(4) NBC 2 (NUC, BIO and CHEM, as received).

(5) NBC 3 (NUC and CHEM, as information is received and processed).

(6) NBC Status Report (1200 and 2400 local).

b. **REPORT CHANNELS.** The following communication channels will be used to pass NBCWRS information:

(1) Primary: TACCIMS

(2) Secondary: Secure voice

(3) Tertiary: Fax

(4) Additional: Nonsecure voice

4-6 SUBORDINATE NBCC TO USFK NBCC : (EUSA, USAFK, USNFK)

a. **REPORTS PASSED.** The following reports will be passed up to USFK NBCC:

(1) NBC 1 (NUC, BIO and CHEM report the initial use of each type agent.)

(2) NBC 2 (NUC, BIO and CHEM, as received).

(3) NBC 3 (NUC and CHEM, as information is received and processed).

(4) NBC Status Report (Combined CFC report).

b. **REPORT CHANNELS.** The following communication channels will be used to NBCWRS information:

(1) Primary: TACCIMS

(2) Secondary: Secure Voice

(3) Tertiary: Fax

(4) Additional: Nonsecure Voice

CHAPTER 5
STRIKE SERIAL NUMBERS

5-1. GENERAL. When an NBCC receives an NBC 1, a series of NBC 1s or NBC 2s concerning an NBC attack, it will assign the event a Strike Serial Number. This serial number will be used in all further communications concerning the attack.

5-2. Strike Serial Number. The Strike Serial Number will be composed of a nine character alphanumeric code, the first five to identify the reporting NBCC, the sixth is a letter designating the type of attack, and the last three digits are used to show the attack number. The components of the Strike Serial Number are defined below:

a. **Alphanumeric codes for major subordinate commands:**

(1) FXXXX ..... 1st ROK Army

(2) SXXXX ..... 2nd ROK Army

(3) TXXXX ..... 3rd ROK Army

(4) 7XXXX ..... 7th Corps ROK

(5) AXXXX ..... Air Component Command

(6) NXXXX ..... Naval Component Command

(7) MXXXX ..... Combined Marine Forces Command

(8) UXXXX ..... Combined Unconventional Warfare Task Force

(9) ASG01 ..... 501st CSG

(10) ASG02 ..... 34th ASG

(11) ASG03 ..... 23rd ASG

(12) ASG04 ..... 20th ASG

(13) ASG05 ..... TBD

(14) ASG06 .....TBD

(15) The digits shown as XXXX can be used to further define the area within their region of control in which the attack occurred. The NBCC can allocate blocks of serial numbers down to corps, division, and airbase level. See examples in paragraph d. on the following page.

b. Single letter code designating attack type:

(1) N ..... Nuclear

(2) B ..... Biological

(3) C ..... Chemical

(4) R ..... Riot Control Agent

(5) H ..... Herbicide

c. Attack number: Sequential number for each type of attack beginning with 001.

d. Several examples of strike serial numbers are listed below:

(1) "T0626B003"

(a) T = Third ROK Army

(b) 06 = 6th Corps

(c) 26 = 26th Division

(d) B = Biological

(e) 003 = 3rd attack

(2) "AK016R002"

(a) A = Air Component Command

(b) KO16 = is Seoul Airbase. Each airbase has a 2 or 3 digit designator beginning with "K" followed by a one or two digit number. K16 is the designator for Seoul Airbase. In order for the designator to fit the 4 digit requirement a "0" is place between the K and the 16. Single digit airbase designators will require two "O"s. A listing of all airbase designators can be found in ACC Reg 360-1.

(c) R = Riot Control Agents

(d) 002 = 2nd attack

(3) "ASG02C005"

(a) ASG02 = 34th Area Support Group

(b) C = Chemical

(c) 005 = 5th attack

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FROKA	150
SROKA	150
TROKA	200
ROK JCS	50
ROKAF	50
ROKNAVY	50
CMFC	30
CUWTF	20
CAF	20
CSCT #1	50
CSCT #3	50
CAPITOL COMMAND	50
CFCD-PL-C	100

APPENDIX A
REFERENCES

SECTION I
REQUIRED PUBLICATIONS

CBSSOP, United Nations Command, ROK-US Combined Forces Command, Combine Battle Staff, Standing Operating Procedures, (Change 1), 1 June 1992 (S-R).

CINCUNC/CFC OPLAN 5027-92, 15 May 1993 (S-R).

JCS SM-773-88, Annex F (Chemical Warfare; Nuclear, Biological, and Chemical Defense; Riot Control Agents; and Herbicides), JSCP FY 89-90, 26 September 1988 (S).

USCINCPACINST S3400.2F, Policy for Chemical Warfare and Nuclear, Biological, and Chemical Defense (CW/NBCD) within the USPACOM, 12 November 1986 (S-N).

Allied Tactical Publication (ATP) 45

FM 3-3/FMFM 11-17, Chemical and Biological Contamination Avoidance, 16 November 1992.

FM 3-3-1, Nuclear Contamination Avoidance.

SECTION II
RELATED PUBLICATIONS

FM 3-4/FMFM 11-9, NBC Protection, 29 May 1992.

FM 3-6/AFM 105-7/FMFM 7-11-H, Field Behavior of NBC Agents.

FM 3-9/AFR 355-7, Potential Military Chemical/Biological Agents and Compounds.

FM 3-100, NBC Operations.

FM 3-101, Chemical Staffs and Units.

APPENDIX B
STANDARD LINE ITEMS MEANING

SECTION I
NUCLEAR LINE ITEM MEANINGS

ALPHA CODE	MEANING
ALPHA	Strike serial number. Assigned by the lowest NBCC authorized a block of strike serial numbers.
BRAVO	Position of observer. Use UTM grid coordinates.
CHARLIE	Azimuth measured clockwise from grid or magnetic north (state which) of attack from the observer in degrees or mils (state which).
DELTA	Date and time attack started. Use local time, India time.
ECHO	Not used in Nuclear reports.
FOXTROT	Location of attack. Use UTM grid coordinates. State whether the location is actual or estimated.
GOLF	Type of attack. State whether attack was by artillery, mortars, rocket, missiles, bombs, or unknown (state which).
HOTEL	Type of burst (air, surface, subsurface or unknown, state which).
JULIET	Flash-to-bang time (in seconds).
KILO	Crater present or absent and diameter in meters.
LIMA	Cloud width measured at H + 5 minutes in degrees or mills (state which).
MIKE	Stabilized cloud top angle/or cloud bottom angle (state which) or cloud top height or cloud bottom height (state which) measured at H+10 minutes in degrees or mills or feet (state which).
NOVEMBER	Estimated yield (in kilotons)

OSCAR	Reference date-time for estimated contour lines when not H+1.
PAPA	Not used in Nuclear reports.
PAPA ALPHA	UTM coordinates of the external contours of radioactive cloud.
PAPA BRAVO	Effective downwind direction (the direction from which the wind is coming) in degrees or mills (state which).
QUEBEC	Location of reading (UTM grid coordinates).
ROMEO	Dose rate (cGy/hr).
SIERRA	Date-time group of reading. Use local time (India).
TANGO	H + 1 date and time. Use local time (India).
UNIFORM	1000 cGy/Hr contour line coordinates (RED).
VICTOR	300 cGy/Hr contour line coordinates (GREEN).
WHISKEY	100 cGy/Hr contour line coordinates (BLUE).
X-RAY	30 cGy/Hr contour line coordinates (BLACK).
YANKEE	Direction measured clockwise from grid north to the left and then to the right radial line in degrees or mills (state which).
ZULU	Effective wind speed (Km/hr or knots), 3 digits; downwind distance of Zone I (Km or nautical miles), 2 digits. (NOTE: If effective downwind speed is less then 8 km/hr, the NBC 3 Nuc will contain only 3 digits, the radius of Zone I).
ZULU ALPHA	Not used in Nuclear reports.
ZULU BRAVO	Remarks.
ZULU INDIA	Not used in Nuclear reports.

SECTION II
CHEMICAL/BIOLOGICAL LINE ITEM MEANINGS

ALPHA CODE	MEANING
ALPHA	Strike serial number. Assigned by the lowest NBCC authorized a block of strike serial numbers.
BRAVO	Position of observer. Use UTM grid coordinates.
CHARLIE	Azimuth measured clockwise from grid or magnetic north (state which) of attack from the observer in degrees or mils (state which).
DELTA	Date and time attack started. Use local time, India time.
ECHO	Date and time attack ended. Use local time, India time.
FOXTROT	Location of attack. Use UTM grid coordinates. State whether the location is actual or estimated.
GOLF	Type of attack. State whether attack was by artillery, mortars, rocket, missiles, bombs, spray, or unknown (state which).
HOTEL	Type of agent.
INDIA	Number of munitions or aircraft, if known.
KILO	Description of terrain/vegetation in area of attack.
MIKE	Removed from CB reports by ATP 45.
NOVEMBER	Not used in CB reports.
PAPA	Removed from CB reports by ATP 45.
PAPA ALPHA	Predicted hazard area (UTM grid coordinates). If wind speed is 10 kmph or less, this item will be 010 (the radius of the hazard area in km), around the point of attack.
PAPA BRAVO	Duration of hazard. In days, hours, or minutes.

QUEBEC	Location of sampling (UTM grid coordinates) and type sample (air or liquid).
ROMEO	Not used in CB reports.
SIERRA	Date-time group contamination detected. Use local time (India).
TANGO	Date-time group of latest contamination survey of the area. Use local time (India).
UNIFORM	Not used in CB reports.
VICTOR	Not used in CB reports.
WHISKEY	Not used in CB reports.
X-RAY	Area of actual contamination. Plot in yellow.
YANKEE	Downwind direction (4 digits in degrees or mills, state which) of hazard and wind speed (3 digits, in km/hr or Nm/hr, state which).
ZULU	Not used in CB reports.
ZULU ALPHA	Significant weather phenomena. Air stability (1 digit). Temperature in centigrade (2 digit). Humidity (1 digit). Significant weather phenomena (1 digit). Cloud cover (1 digit). See Appendix N for codes.
ZULU BRAVO	Remarks.
ZULU INDIA	Removed from CB reports by ATP 45.

APPENDIX C
NBC 1 NUCLEAR REPORT FORMAT

FROM: _____

TO: _____

PRECEDENCE: **FLASH/IMMEDIATE**

NBC 1 NUCLEAR REPORT - OBSERVER'S INITIAL OR FOLLOW-UP REPORT (INITIAL/FOLLOW-UP)

LINE	MEANING	DATA
ALFA	**Strike Serial Number.** Assigned by the lowest NBCC authorized a block of strike serial numbers. (If known)(Optional) EXAMPLE AK075N001	_____
BRAVO	**Position of observer.** Use UTM grid coordinates. **(Required)** EXAMPLE CA567568	_____
CHARLIE	**Azimuth of attack from observer.** Azimuth measured clockwise from grid or magnetic north (state which) of attack from the observer in degrees or mils (state which). **(Line C or F must be included.)** EXAMPLE 360 mils mag 15 deg grid	_____
DELTA	**Date-time group of detonation.** Use local time (India). **(Required)** EXAMPLE 121200I JUL 93	_____
FOXTROT	**Location of area attacked.** Use UTM grid coordinates. State whether the location is actual or estimated. **(Line C or line F must be included)** EXAMPLE CS367892 estimated CA465387 actual	_____

GOLF **Means of delivery.** State whether attack was by artillery, mortars, rocket, missiles, bombs, or unknown (state which). (Optional) _____

EXAMPLE
Artillery
Mortars
Rocket
Missiles
Aircraft
Unknown

HOTEL **Type of burst** (air, surface, subsurface or unknown, state which). **(Required)** _____

EXAMPLE
Air
Surface
Subsurface
Unknown

JULIET **Flash-to-bang time** (in seconds). (Optional) _____

EXAMPLE 8 seconds

KILO **Crater diameter.** (if known) (Optional) _____

EXAMPLE
500 meters
no crater
unknown

LIMA **Cloud with at H+5.** Cloud width measured at H + 5 minutes in degrees or mills (state which). (Optional, **used in follow-up report)** _____

EXAMPLE
20 deg
110 mils

MIKE **Stabilized cloud top or cloud bottom at H+10, or cloud top or cloud bottom height at H+10.** (Optional, **used in follow-up report.)** _____

EXAMPLE
15 deg cloud bottom
1100 mils cloud top
3000 ft cloud bottom
800 meters cloud top

APPENDIX D
NBC 2 NUCLEAR REPORT FORMAT

FROM: _____

TO: _____

PRECEDENCE: IMMEDIATE

NBC 2 NUCLEAR REPORT - EVALUATED DATA REPORT

LINE	MEANING	DATA
ALPHA	**Strike serial number.** Assigned by the lowest NBCC authorized a block of strike serial numbers. **(Required)**	_____
	EXAMPLE AK075N001	
DELTA	**Date and time of detonation.** Use local time (India). **(Required)**	_____
	EXAMPLE 121230I JUL 93	
FOXTROT	**Location of attack** (UTM GRID, actual or estimated, state which). **(Required)**	_____
	EXAMPLE CA245787 actual CD245789 estimated	
GOLF	**Means of delivery.** State whether attack was by artillery, mortars, rocket, missiles, bombs, or unknown (state which). **(Required)**	_____
	EXAMPLE Artillery Mortars Rocket Missiles Aircraft Unknown	
HOTEL	**Type of burst** (air, surface, subsurface or unknown, state which). **(Required)**	_____
	EXAMPLE Air	

Surface
Subsurface
Unknown

KILO **Crater diameter** (meters), if known. (Optional) _____

EXAMPLE 500 meters
no crater
unknown

NOVEMBER **Estimated yield** (in kilotons) **(Required)** _____

EXAMPLE 10 kt
100 kt

APPENDIX E
NBC 3 NUCLEAR REPORT FORMAT

FROM: _____

TO: _____

PRECEDENCE: **IMMEDIATE**

NBC 3 NUCLEAR REPORT - IMMEDIATE WARNING OF PREDICTED CONTAMINATION AND HAZARD AREAS

LINE	MEANING	DATA
ALPHA	**Strike serial number.** Assigned by the lowest NBCC authorized a block of strike serial numbers. **(Required)** EXAMPLE AK075N001	_____
DELTA	**Date and time of detonation.** Use local time (India). **(Required)** EXAMPLE 121230I JUL 93	_____
FOXTROT	**Location of attack** (UTM GRID, actual or estimated, state which). **(Required)** EXAMPLE CA245787 actual CD245789 estimated	_____
NOVEMBER	**Estimated yield** (in kilotons) **(Required)** EXAMPLE 10 kt	_____
YANKEE	**Direction measured clockwise from grid north to the left and then to the right radial line in degrees or mils** (state which). **(Required)** EXAMPLE 00900130 deg 18002200 mils	_____

ZULU	**Effective wind speed** (km/hr or knots), 3 digits; **downwind distance of Zone I** (Km or nautical miles), 3 digits; **cloud radius** (km or nautical miles). (NOTE: If effective downwind speed is less than 8 km/hr, the NBC 3 Nuc will contain only 3 digits, the radius of Zone I). **(Required)** EXAMPLE 01202510 kmph 02302712 knots 008	_____

APPENDIX F
NBC 4 NUCLEAR REPORT FORMAT

FROM: _____

TO: _____

PRECEDENCE: **IMMEDIATE**

NBC 4 NUCLEAR REPORT - RADIATION DOSE RATE MEASUREMENT REPORT

LINE	MEANING	DATA
ALFA	**Strike Serial Number.** Assigned by the lowest NBCC authorized a block of strike serial numbers.(If known) (Optional) EXAMPLE AK075N001	_____
KILO	**Crater diameter.** (if known) (Optional) EXAMPLE 500 meters no crater unknown	_____
QUEBEC	**Location of reading** (UTM GRID). **(Required)** EXAMPLE CA567568	_____
ROMEO	**Dose rate** (cGy/hr). **(Required)** EXAMPLE 5 cGy/hr initial 12 cGy/hr increasing 25 cGy/hr peak 15 cGy/hr decreasing	_____
SIERRA	**Date and time of reading.** Use local time (India). **(Required)** EXAMPLE 121200I JUL 93	_____

NOTE: Lines Q, R and S will be repeated as often as necessary. Line R may include descriptive words such as "initial", "peak", "increasing", decreasing", "special", "verification" or "summary".

APPENDIX G
NBC 5 NUCLEAR REPORT FORMAT

FROM: _____

TO: _____

PRECEDENCE: IMMEDIATE

NBC 5 NUCLEAR REPORT - CONTAMINATION AREA REPORT

LINE	MEANING	DATA
ALPHA	**Strike Serial Number.** Assigned by the lowest NBCC authorized a block of strike serial numbers.(**Required**) EXAMPLE AK075N001	_____
DELTA	**Date-time group of detonation.** (**Required**) EXAMPLE 121200I JUL 93	_____
FOXTROT	**Location of area attacked.** Use local time, India time.(**Required**) EXAMPLE CS367892 estimated CA465387 actual	_____
OSCAR	**Reference DTG of estimated contours when not H+1** (Optional) EXAMPLE 121300I JUL 93	_____
TANGO	**H + 1 date and time.** Use local time (India). (**Required**) EXAMPLE 121230I JUL 93	_____
UNIFORM	**1000 cGy/Hr contour line coordinates** (RED). (**Required**) UTM grid coordinates	_____

VICTOR	**300 cGy/Hr contour line coordinates** (GREEN). (Required) UTM grid coordinates	_____
WHISKEY	**100 cGy/Hr contour line coordinates** (BLUE). (Required) UTM grid coordinates	_____
X-RAY	**30 cGy/Hr contour line coordinates** (BLACK). (Required) UTM grid coordinates	_____

NOTE: This report is best sent by overlay if time and tactical situation permit.

APPENDIX H
NBC 1 CHEMICAL/BIOLOGICAL REPORT FORMAT

FROM: _____

TO: _____

PRECEDENCE: FLASH/IMMEDIATE

NBC 1 CHEMICAL/BIOLOGICAL REPORT - OBSERVER'S INITIAL OR FOLLOW-UP REPORT (INITIAL/FOLLOW-UP)

LINE	MEANING	DATA
ALPHA	**Strike serial number.** Assigned by the lowest NBCC authorized a block of strike serial numbers. (Optional) EXAMPLE AK075C001 AK016B005	_____
BRAVO	**Position of observer.** Use UTM grid coordinates. **(Required)** EXAMPLE CS678345	_____
CHARLIE	**Azimuth measured clockwise from grid or magnetic north (state which) of attack from the observer** in degrees or mils (state which). **(Line C or F must be included.)** EXAMPLE 45 deg 300 mils mag	_____
DELTA	**Date and time attack started.** Use local time, India time. **(Required)** EXAMPLE 121230I JUL 93	_____
ECHO	**Date and time attack ended.** Use local time, India time. (Optional) EXAMPLE 121300I JUL 93	_____

FOXTROT **Location of attack.** Use UTM grid coordinates. State whether the location is actual or estimated. (**Line C or F must be included.**) _____

EXAMPLE CA789345 estimated
DA453678 actual

GOLF **Type of attack.** State whether attack was by artillery, mortars, rocket, missiles, bombs, spray, or unknown (state which). (Optional) _____

EXAMPLE artillery
mortars
rocket
missiles
bombs
spray
unknown

HOTEL **Type of agent. (Required)** _____

EXAMPLE AGENT	TYPE BURST	PERSISTENCY
Nerve	Air	Persistent (P)
Blood	Ground	Nonpersistent (NP)
Choking	Spray	Unknown
Blister	Aerosol	
Mustard	Unknown	
Dusty		
GA		
GB		
GD		
H		
Biological		
RCA		
Herbicide		

INDIA **Number of munitions or aircraft,** if known. (Optional) _____

EXAMPLE 20 artillery
5 aircraft
20 bombs

KILO	**Description of terrain/vegetation in area of attack.** (Optional) Note: Narrative description of terrain and vegetation.	_____
SIERRA	**Date-time group contamination detected.** Use local time (India). (Optional) EXAMPLE 121245I JUL 93	_____
YANKEE	**Downwind direction** (4 digits in degrees or mils, state which) **of hazard and wind speed** (3 digits, in km/hr or Nm/hr, state which). (Optional) EXAMPLE 0270 deg, 015 kmph	_____
ZULU ALPHA	**Significant weather phenomena**. Air stability (1 digit). Temperature in centigrade (2 digit). Humidity (1 digit). Significant weather phenomena (1 digit). Cloud cover (1 digit). See Appendix N for codes. (Optional) EXAMPLE 518640	_____
ZULU BRAVO	**Remarks.** (Optional)	_____

APPENDIX I
NBC 2 CHEMICAL/BIOLOGICAL REPORT FORMAT

FROM: _____

TO: _____

PRECEDENCE: IMMEDIATE

NBC 2 CHEMICAL/BIOLOGICAL REPORT - EVALUATED DATA REPORT

LINE	MEANING	DATA
ALPHA	**Strike serial number.** Assigned by the lowest NBCC authorized a block of strike serial numbers. **(Required)** EXAMPLE AK075C001 AK016B005	_____
DELTA	**Date and time attack started.** Use local time, India time. (Optional) EXAMPLE 121230I JUL 93	_____
ECHO	**Date and time attack ended.** Use local time, India time. (Optional) EXAMPLE 121300I JUL 93	_____
FOXTROT	**Location of attack.** Use UTM grid coordinates. State whether the location is actual or estimated. **(Required)** EXAMPLE CA789345 estimated DA453678 actual	_____
GOLF	**Type of attack.** State whether attack was by artillery, mortars, rocket, missiles, bombs, spray, or unknown (state which). (Optional) EXAMPLE artillery mortars	_____

rocket
missiles
bombs
spray
unknown

HOTEL **Type of agent.** (Required) _____

EXAMPLE

AGENT	TYPE BURST	PERSISTENCY
Nerve	Air	Persistent (P)
Blood	Ground	Nonpersistent (NP)
Choking	Spray	Unknown
Blister	Aerosol	
Mustard	Unknown	
Dusty		
GA		
GB		
GD		
H		
Biological		
RCA		
Herbicide		

INDIA **Number of munitions or aircraft,** if known. (Optional) _____

EXAMPLE 20 artillery
5 aircraft
20 bombs

KILO **Description of terrain/vegetation in area of attack.** (Optional) _____

Note: Narrative description of terrain and vegetation.

YANKEE **Downwind direction** (4 digits in degrees or mills, state which) **of hazard and wind speed** (3 digits, in km/hr or Nm/hr, state which). (Optional) _____

EXAMPLE 0270 deg, 015 kmph

ZULU ALPHA	**Significant weather phenomena.** Air stability (1 digit). Temperature in centigrade (2 digit). Humidity (1 digit). Significant weather phenomena (1 digit). Cloud cover (1 digit). See Appendix N for codes. (Optional) EXAMPLE 518640	_____
ZULU BRAVO	**Remarks.** (Optional)	_____

APPENDIX J
NBC 3 CHEMICAL REPORT FORMAT

FROM: _____

TO: _____

PRECEDENCE: IMMEDIATE

NBC 3 CHEMICAL REPORT - IMMEDIATE WARNING OF PREDICTED CONTAMINATION AND HAZARD AREAS REPORT

LINE	MEANING	DATA
ALPHA	**Strike serial number.** Assigned by the lowest NBCC authorized a block of strike serial numbers. **(Required)** EXAMPLE AK075C001	_____
DELTA	**Date and time attack started.** Use local time, India time. **(Required)** EXAMPLE 121230I JUL 93	_____
ECHO	**Date and time attack ended.** Use local time, India time. (Optional) EXAMPLE 121300I JUL 93	_____
FOXTROT	**Location of attack.** Use UTM grid coordinates. State whether the location is actual or estimated. **(Required)** EXAMPLE CA789345 estimated DA453678 actual	_____
HOTEL	**Type of agent/type of burst/persistency.** **(Required)** EXAMPLE AGENT — TYPE BURST — PERSISTENCY Nerve — Air — Persistent (P) Blood — Ground — Nonpersistent (NP) Choking — Spray — Unknown	_____

Blister	Aerosol
Mustard	Unknown
Dusty	
GA	
GB	
GD	
H	
Biological	
RCA	
Herbicide	

PAPA ALPHA **Predicted hazard area** (UTM grid coordinates). _____
If wind speed is 10 kmph or less, this item will be 010 (the radius of the hazard area in km), around the point of attack. **(Required)**

EXAMPLE CA349123, CA 472020, CA479030, CA362180
010

PAPA BRAVO **Duration of hazard.** In days, hours, or minutes. _____
(Optional)

EXAMPLE In attack area 2-4 days
In hazard area 1-2 days

YANKEE **Downwind direction** (4 digits in degrees or mils, _____
state which) of hazard and wind speed (3 digits, in km/hr or Nm/hr, state which). (Optional)

EXAMPLE 0270 deg, 015 kmph

ZULU ALPHA **Significant weather phenomena.** Air stability (1 digit). _____
Temperature in centigrade (2 digit). Humidity (1 digit). Significant weather phenomena (1 digit). Cloud cover (1 digit). See Appendix N for codes. (Optional)

EXAMPLE 518640

APPENDIX K
NBC 4 CHEMICAL REPORT FORMAT

FROM: _____

TO: _____

PRECEDENCE: IMMEDIATE

NBC 4 CHEMICAL REPORT - CHEMICAL AREAS OF CONTAMINATION REPORT

LINE	MEANING	DATA
ALPHA	**Strike serial number.** Assigned by the lowest NBCC authorized a block of strike serial numbers. (Optional) EXAMPLE AK075C001	_____
HOTEL	**Type of agent.** (Required) EXAMPLE AGENT: Nerve, Blood, Choking, Blister, Mustard, Dusty, GA, GB, GD, H, Biological, RCA, Herbicide TYPE BURST: Air, Ground, Spray, Aerosol, Unknown PERSISTENCY: Persistent (P), Nonpersistent (NP), Unknown	_____
KILO	**Description of terrain/vegetation in area of attack area.** (Optional) Note: Narrative description of terrain and vegetation.	_____
QUEBEC	**Location of sampling** (UTM grid coordinates) and type sample (air or liquid). **(Required)**	_____

Note: Narrative description of terrain and vegetation.

SIERRA **Date-time group contamination detected.** _____
Use local time (India). (Required)

EXAMPLE 121245I JUL 93

Note: Line items Quebec, Romeo and Sierra may be repeated as often as necessary.

APPENDIX L
NBC 5 CHEMICAL REPORT FORMAT

FROM: _____

TO: _____

PRECEDENCE: IMMEDIATE

NBC 5 CHEMICAL REPORT - CONTAMINATION AREA REPORT

LINE	MEANING	DATA
ALPHA	**Strike serial number.** Assigned by the lowest NBCC authorized a block of strike serial numbers. (Optional) EXAMPLE AK075C001	_____
DELTA	**Date and time attack started.** Use local time, India time. (Optional) EXAMPLE 121230I JUL 93	_____
HOTEL	**Type of agent. (Required)** EXAMPLE AGENT: Nerve, Blood, Choking, Blister, Mustard, Dusty, GA, GB, GD, H, Biological, RCA, Herbicide TYPE BURST: Air, Ground, Spray, Aerosol, Unknown PERSISTENCY: Persistent (P), Nonpersistent (NP), Unknown	_____
SIERRA	**Date-time group contamination detected.**	_____

Use local time (India). (Optional)

EXAMPLE 121245I JUL 93

TANGO **Date-time group of latest contamination survey of the area.** Use local time (India). **(Required)** _____

EXAMPLE 121500I JUL 93

X-RAY **Area of actual contamination.** Plot in yellow. **(Required)** _____

Note: UTM grid coordinates of the outline of contamination

ZULU BRAVO **Remarks.** (Optional) _____

APPENDIX M
NBC 6 CHEMICAL/BIOLOGICAL REPORT FORMAT

FROM: _____

TO: _____

PRECEDENCE: IMMEDIATE

NBC 6 CHEMICAL/BIOLOGICAL REPORT - DETAILED INFORMATION OF CHEMICAL OR BIOLOGICAL ATTACKS(S) REPORT

LINE	MEANING	DATA
ALPHA	**Strike serial number.** Assigned by the lowest NBCC authorized a block of strike serial numbers. **(Required)** EXAMPLE AK075C001 AK016B005	_____
DELTA	**Date and time attack started.** Use local time, India time. **(Required)** EXAMPLE 121230I JUL 93	_____
ECHO	**Date and time attack ended.** Use local time, India time. **(Required)** EXAMPLE 121300I JUL 93	_____
FOXTROT	**Location of attack.** Use UTM grid coordinates. State whether the location is actual or estimated. **(Required)** EXAMPLE CA789345 estimated DA453678 actual	_____
GOLF	**Type of attack.** State whether attack was by artillery, mortars, rocket, missiles, bombs, spray, or unknown (state which). **(Required)** EXAMPLE artillery mortars rocket	_____

missiles
bombs
spray
unknown

HOTEL **Type of agent. (Required)** _____

EXAMPLE

AGENT	TYPE BURST	PERSISTENCY
Nerve	Air	Persistent (P)
Blood	Ground	Nonpersistent (NP)
Choking	Spray	Unknown
Blister	Aerosol	
Mustard	Unknown	
Dusty		
GA		
GB		
GD		
H		
Biological		
RCA		
Herbicide		

INDIA **Number of munitions or aircraft,** if known. (Optional) _____

EXAMPLE 20 artillery
5 aircraft
20 bombs

KILO **Description of terrain/vegetation in area of attack.** (Optional) _____

Note: Narrative description of terrain and vegetation.

QUEBEC **Location of sampling** (UTM grid coordinates) and type sample (air or liquid). (Optional) _____

EXAMPLE CA457345

SIERRA **Date-time group contamination detected.** Use local time (India). (Optional) _____

EXAMPLE 121245I JUL 93

TANGO	**Date-time group of latest contamination survey of the area.** Use local time (India). (Optional) EXAMPLE 121500I JUL 93	_____
X-RAY	**Area of actual contamination.** Plot in yellow. (Optional) Note: UTM grid coordinates of the outline of contamination	_____
YANKEE	**Downwind direction** (4 digits in degrees or mills, state which) of hazard and wind speed (3 digits, in km/hr or Nm/hr, state which). (Optional) EXAMPLE 0270 deg, 015 kmph	_____
ZULU BRAVO	**Remarks.** (Optional)	_____

APPENDIX N
CHEMICAL DOWNWIND MESSAGE (CDM) FORMAT

ALPHA LINE	FORMAT	DATA
ZONE		
EFFECTIVE TIME	DDTTTT	
WHISKEY	dddsssAttHWC	
X-RAY	dddsssAttHWC	
YANKEE	dddsssAttHWC	

Note: DD = date, TTTT = time (zulu time), ddd = effective wind direction, in degrees, from grid north, sss = the effective wind speed in kilometers per hour, A = Air stability code, tt = Temperature code, H = Humidity code, W = Significant weather phenomena code, C = Cloud cover code

Air stability code

1 = very unstable	2 = unstable	3 = slightly unstable
	4 = neutral	
5 = slightly stable	6 = stable	7 = very unstable

Temperature codes

00 = 0 C	01 = 1 C	02 = 2 C	03 = 3 C	04 = 4 C
05 = 5 C	06 = 6 C	07 = 7 C	08 = 8 C	09 = 9 C
10 = 10C	11 = 11C	12 = 12C	13 = 13C	14 = 14C
15 = 15C	16 = 16C	17 = 17C	18 = 18C	19 = 19C
20 = 20C	21 = 21C	22 = 22C	23 = 23C	24 = 24C
25 = 25C	26 = 26C	27 = 27C	28 = 28C	29 = 29C
30 = 30C	31 = 31C	32 = 32C	33 = 33C	34 = 34C
35 = 35C	36 = 36C	37 = 37C	38 = 38C	39 = 39C
40 = 40C	41 = 41C	42 = 42C	43 = 43C	44 = 44C
45 = 45C	46 = 46C	47 = 47C	48 = 48C	49 = 49C
50 = 50C	51 = -1C	52 = -2C	53 = -3C	54 = -4 C
55 = -5C	56 = -6C	57 = -7C	58 = -8C	59 = -9C
60 = -10C	61 = -11C	62 = -12C	63 = -13C	64 = -14C
65 = -15C	66 = -16C	67 = -17C	68 = -18C	69 = -19C
70 = -20C	71 = -21C	72 = -22C	73 = -23C	74 = -24C

FAHRENHEIT = (CELSIUS X 1.8) + 32
CELSIUS = (FAHRENHEIT - 32) X .556

Significant weather phenomena code

0 = NO SIGNIFICANT WEATHER	3 = Blowing snow or sand.
4 = Fog, ice fog, or thick haze.	5 = Drizzle
6 = Rain	7 = light rain or snow.
8 = showers of rain, snow, hail or a mixture	9 = Thunderstorms

Cloud cover code	
0 = Sky less than half covered by clouds	1 = Half the sky covered by clouds
2 = More than half the sky covered by clouds	

APPENDIX O
EFFECTIVE DOWNWIND MESSAGE (EDM) FORMAT

ALPHA LINE	FORMAT	MEANING	DATA
ZULU	DDTTTT	DATE-TIME GROUP WINDS MEASURED	
ALPHA	dddsss---	0 thru 2 KT	
BRAVO	dddsss---	Over 2 thru 5 KT	
CHARLIE	dddsss---	Over 5 thru 30 KT	
DELTA	dddsss---	Over 30 thru 100 KT	
ECHO	dddsss---	Over 100 KT thru 300 KT	
FOXTROT	dddsss---	Over 300 KT thru 1 MT	
GOLF	dddsss---	Over 1 thru 3 MT	
Note: DD = date, TTTT = time (Zulu time), ddd = effective wind direction, in degrees, from grid north, sss = the effective wind speed in kilometers per hour, --- = the expanded angle in degrees.			

APPENDIX P
NBC SUMMARY REPORT

P-1 GENERAL.

a. This report provides CDR, CFC, with an overview of NBC activities every 12 hours.

b. The report has a cut-off time of 2400I and 1200I and is due to CP TANGO NLT 0300I and 1500I, respectively.

P-2 FORMAT.

SUBJECT: (Command Submitting Report) NBC Summary Report for (Period of Report: 1201 to 2400 and 0001 to 1200 - date)

a. Enemy attacks in Area/on Forces: For each attack include the basic information from all NBC-1 or 2 Reports: Strike Serial Number, time of attack, location of attack, type of agent, and delivery means.

b. Narrative (Include as appropriate):

(1) Effects of enemy attack on friendly operations.

(2) Problems in either defensive or offensive operations.

(3) Other items which may be of interest to CDR, CFC. e.g., civilian casualties.

APPENDIX Q
FORECAST/CHEMICAL DOWNWIND MESSAGE AREAS

Q-1. CDM AREAS: There are eight weather forecast/Chemical Downwind Message areas for the Republic of Korea as defined below.

a. **AREA 1:** Northwest section (Includes Seoul, Inchon, and the 2nd Infantry Division): CT610400 to CS570320 to CS000300 then north along the coast to the DMZ and then along the DMZ back to CT610400.

b. **AREA 2:** North Central Interior (Includes Chunchon, Wonju and Chungju): DT320470 to DS910200 to CR800150 to CS570320 to CT610400 then along the DMZ back to DT320470.

c. **AREA 3:** Central West Coast (Includes Osan, Taejon, and Kunsan): CS000300 to CS570320 to CR800150 to BQ900740 then north along the coast back to CS000300.

d. **AREA 4:** Southwest Coast (Include Chonju and Kwangju): BQ900740 to CR800150 to CQ450000 to BP700320 then north along the coast back to BQ900740.

e. **AREA 5:** South Coast (Includes Sachon, Chinhae, and Pusan): BP700320 to CQ450000 to DQ920480 to EQ450500 then along the coast back to BP700320.

f. **AREA 6:** Central Interior (Includes Andong, Namweon, and Taegu): CR800150 to CQ450000 to DQ920480 to DS910200 and then back to CR800150.

g. **AREA 7:** Central East Coast (Includes Ulchin and Pohang): ES300230 to DS910200 to DQ920480 to EQ450500 then north along the coast to ES300230.

h. **AREA 8:** Northeast Coast (Includes Sokcho and Kangnung): ES300230 to DS910200 to DT300470 then along the DMZ to the east coast and south along the coast back to ES300230.

Q-2 See diagram on next page.

REAL WORLD CHEMICAL DOWNWIND MESSAGE (CDM) ZONES

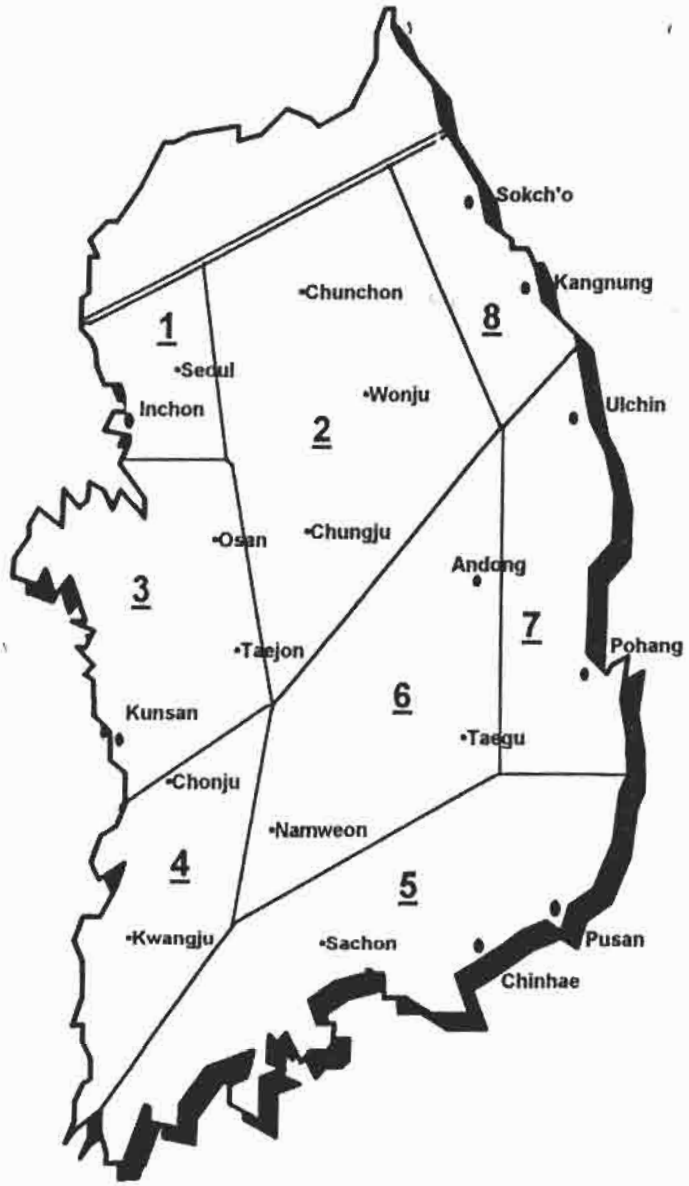

FIGURE Q-1, REAL WORLD CHEMICAL DOWNWIND MESSAGE (CDM) ZONES

GLOSSARY

SECTION I
ABBREVIATIONS

AC	Hydrogen cyanide, a blood agent.
ACC	Air Component Command.
ACCR	Air Component Command Regulation.
ANBACIS	Automated Nuclear, Biological, and Chemical Information System.
ASG	Area Support Groups (Army).
Bio	Biological.
C	Celsius.
CB	Chemical and Biological.
CBSSOP	Combined Battle Staff Standing Operating Procedures.
CDM	Chemical Downwind Message.
CFC	Combined Forces Command.
CG	Phosgene, choking agent.
cGy	Centigray.
cGyph	Centigray per hour.
Chem	Chemical.
CINC	Commander in Chief.
CK	Cyanogen chloride, a blood agent.
CMFC	Combined Marine Forces Command.
CSG	Combat Support Group (U.S. Army)

CUWTF	Combined Unconventional Warfare Task Force.
EDM	Effective Downwind Message.
EUSA	Eighth United States Army.
F	Fahrenheit
FAX	Facsimile
FLOT	Forward line of own troops.
FROKA	First Republic of Korea Army.
GA	Tabun, nerve agent
GB	Sarin, nerve agent
GCC	Ground Component Command.
GD	Soman, nerve agent
HD	Distilled mustered, blister agent
HN	Nitrogen mustered, blister agent
hr	Hour
HQ	Headquarters.
km	Kilometer.
kmph	Kilometer per hour.
L	Lewisite, blister agent
NBC	Nuclear Biological and Chemical.
NBCC	NBC Center.
NBCE	NBC Element (Same as NBCC).
NBCWRS	NBC Warning and Reporting System.

NCA	National Command Authority.
NCC	Naval Component Command.
NLT	No Later Than.
Nuc	Nuclear.
OPCON	Operational control.
OPLAN	Operations Plan.
RCA	Riot control agents.
ROK	Republic of Korea.
SROKA	Second Republic of Korea Army.
TACCIMS	Theater Automated Command and Control Information Management System
TANGO	Tactical Air, Naval, and Ground Operations
TBD	To Be Determined.
TROKA	Third Republic of Korea Army.
UNC	United Nations Command.
USAFK	United States Air Forces Korea.
USFK	United States Forces Korea.
USNFK	United States Naval Forces Korea.

SECTION II
TERMS

Aerosol

A suspension or dispensing of small particles (solids or liquids) in a gaseous medium. Examples are mist, fogs, and smoke.

Biological Agents	A microorganism that causes disease in man, plants, or animals, or deterioration of material.
Biological Operations	The intentional use of germs, toxins, or novel compounds to cause death and disease among personnel, animals, and plants, or deteriorate material.
Biological Warfare	See biological operations.
Blister Agent	A chemical agent that injures the eyes and lungs and burns or blisters the skin.
Blood Agent	A chemical compound, including the cyanide group, that affects bodily function by preventing the normal transfer of oxygen from the blood to body tissue. Also called cyanogen agent.
Chemical Agent	A chemical substance intended for use in military operations to kill, seriously injure, or incapacitate through its physiological effects. Excludes riot control agents, herbicides, smoke and flame.
JA Team	A five man team to provide NBC operations support to units. It is organized to provide one 12-hour shift.
JB Team	A ten man team to provide NBC operations support to units. It is organized to provide two 12-hour shifts.
Nerve Agent	A chemical compound, that when inhaled, ingested, or absorbed in to the body the skin, inhibit cholinesterase enzymes throughout the body.
NBC 1 Report	Observer's Report.
NBC 2 Report	Evaluated Data Report.
NBC 3 Report	Immediate Warning of Expected Contamination.
NBC 4 Report	Reconnaissance, Monitoring and Survey Results.
NBC 5 Report	Area of Actual Contamination.
NBC 6 Report	Detailed information on Chemical or Biological Attacks.

HEADQUARTERS
ROK-US COMBINED FORCES COMMAND
UNIT #15255
APO AP 96205-0028

Change No. 1
CFC Pamphlet
No. 525-10

15 June 1996

Military Operations
NBC WARNING AND REPORTING SYSTEM

CFC Pam 525-10, 1 April 1994, is changed as follows:

1. Remove old page 5-3 and insert revised page 5-3.

2. File this change sheet in front of the publication for reference purposes.

The proponent of this pamphlet is the Office of the Assistant Chief of Staff, C3. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) or ROKA Form 1-6-2 to the Commander, UNC/CFC, ATTN: CFCD-PL-C, Unit #15255, APO AP 96205-0028.

FOR THE COMMANDER IN CHIEF:

OFFICIAL:

RICHARD F. TIMMONS
Lieutenant General, USA
Chief of Staff

JUNG, HO CHUL
Colonel, ROKA
Adjutant General, UNC/CFC

(c) R = Riot Control Agents

(d) 002 = 2nd attack

(3) "ASG02C005"

(a) ASG02 = 34th Area Support Group

(b) C = Chemical

(c) 005 = 5th attack

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